

INDEX TO VOLUME XLVI

ACAPNIA and shock, 533.

ADDIS, T., G. D. BARNETT and A. E. SHEVKY. The regulation of renal activity:

I. Regulation of urea excretion by the concentration of urea in the blood and in the urine, 1.

III. Regulation of urea excretion by unknown factors, 22.

IV. Regulation of urea excretion by adrenalin, 39.

V. Regulation of urea excretion by pituitrin, 52.

—, A. E. SHEVKY and G. BEVIER. The regulation of renal activity:

II. Regulation of urea excretion by anatomical factors, 11.

VII. The balance between the regulation by adrenalin and by pituitrin, 129.

—, M. G. FOSTER and G. D. BARNETT. The regulation of renal activity:

VI. The effect of adrenalin and pituitrin on the action of the kidney under strain, 84.

Adrenal glands, venous discharge from, 362.

Adrenalin and pituitrin, balance between regulation by, 129.

—, effect of, on kidney under strain, 84.

—, —, —, on skeletal muscle, 472.

—, regulation of urea excretion by, 39.

—, vascular response of, on nerve ganglia, 521.

— vasodilator mechanisms, 168, 502.

Adrenals, relation of, to piqure hyperglycemia, 90.

Adrenin, effects of, on distribution of blood, 362.

ALVAREZ, W. C. XII. The influence of drugs on intestinal rhythmicity, 554.

— and E. STARKWEATHER.

XI. The metabolic gradient underlying intestinal peristalsis, 186.

XIII. The motor functions of the cecum, 563.

Antigenic property of closed intestinal loop fluid, 366.

AREY, L. B. The multiple sensory activities of the so-called rhinophore of nudibranchs, 526.

— See CROZIER and AREY, 487.

BARNETT, G. D. See ADDIS, BARNETT and SHEVKY, 1, 22, 39, 52.

— See ADDIS, FOSTER and BARNETT, 84.

BEVIER, G. See ADDIS, SHEVKY and BEVIER, 11, 129.

Blood cell formation, stimulation of, by secretin, 209.

—, effects of adrenin on distribution of, 362.

Body temperature, regulation of, in rabbit, 244, 253.

BROOKS, E. S. Reactions of frogs to heat and cold, 493.

BURGE, W. E. and A. J. NEILL. Normal mechanism for the control of oxidation in the body, 117.

BURNETT, T. C. The activation of muscle catalase by liver, 63.

CARBON dioxide tension in lungs, 147.

Cardio-vascular system, influence of music on, 35.

- Catalase, muscle, activation of, by liver, 63.
- Catfish, sense of smell in, 443.
- Cecum, motor functions of, 563.
- Cephalin, thromboplastic action of, 375.
- CHASE, C. S. See DRAGSTEDT, DRAGSTEDT and CHASE, 366.
- See DRAGSTEDT, DRAGSTEDT, McCLINTOCK and CHASE, 584.
- Chiton, significance of reaction to shading in, 487.
- Circulatory failure, shock and, following trauma, 314.
- COBB, S. A note on the supposed relation of the sympathetic nerves to decerebrate rigidity, muscle tone and tendon reflexes, 478.
- Cold, reactions of frogs to, 493.
- COOMBS, H. C. The relation of the dorsal roots of the spinal nerves and the mesencephalon to the control of the respiratory movements, 459.
- CORNER, G. W. and F. H. HURNI. The non-effect of corpus luteum preparations on the ovulation cycle of the rat, 483.
- Corpus luteum, effect of, on ovulation cycle in rat, 483.
- striatum, relation of, to regulation of body temperature, 253.
- CROZIER, W. J. and L. B. AREY. On the significance of the reaction to shading in chiton, 487.
- DECEREBRATE** and decerebellate chicks, behavior of, 396.
- Dental caries, salivary factor in relation to, 28.
- DOWNES, A. W. and N. B. EDDY. Secretin. III. Its mode of action in producing an increase in the number of corpuscles in the circulating blood, 209.
- DRAGSTEDT, C. A., L. R. DRAGSTEDT and C. S. CHASE. The antigenic property of closed intestinal loop fluid, 366.
- DRAGSTEDT, C. A. See DRAGSTEDT, DRAGSTEDT, McCLINTOCK and CHASE, 584.
- DRAGSTEDT, L. R., C. A. DRAGSTEDT, J. T. McCLINTOCK and C. S. CHASE. Extirpation of the duodenum, 584.
- See DRAGSTEDT, DRAGSTEDT and CHASE, 366.
- Drugs, autonomic, action of, on surviving stomach, 232.
- , influence of, on intestinal rhythmicity, 554.
- Duodenum, extirpation of, 584.
- EDDY, N. B.** See DOWNES and EDDY, 209.
- FAT** in alimentary mucosa of starved cats, 570.
- FELLOWS, A. P. See GRUBER and FELLOWS, 472.
- FOSTER, M. G. See ADDIS, FOSTER and BARNETT, 84.
- FRASER, L. See HARTMAN, KILBORN and FRASER, 168, 502, 521.
- GASTRIC** secretion and urine ammonia, 340.
- Growth of offspring, maternal nutrition and, 275.
- GRUBER, C. M. and A. P. FELLOWS. VII. The effect of adrenalin on the irritability and contractility of mammalian nerve-muscle preparations after death, 472.
- and O. S. KRETSCHMER. II. Further studies on the response of the vasomotor mechanism to reflex afferent nerve stimulation, 222.
- GUNNING, R. E. L. The effects of adrenin on the distribution of the blood. VII. Venous discharge from the adrenal glands, 362.
- HAHN, L. J.** See PRINCE and HAHN, 412, 416.
- HARTMAN, F. A., L. G. KILBORN and L. FRASER. Adrenalin vasodilator mechanisms, 502.

- HARTMAN, F. A., L. G. KILBORN and L. FRASER. Constriction from adrenalin acting upon sympathetic and dorsal root ganglia, 521.
- , —, —, —. Location of the adrenalin vasodilator mechanisms, 168.
- HARVEY, S. C. See HENDERSON and HARVEY, 533.
- Heat center in brain of cat, function of, 412.
- , —, — rabbit, vascular response to, 416.
- , —, reactions of frogs to, 493.
- HENDERSON, Y. and S. C. HARVEY. Acapnia and shock. VIII. The veno-pressor mechanism, 533.
- HOOKE, D. R. The veno-pressor mechanism, 591.
- HOWE, P. R. and M. R. KENISTON. The salivary factory in relation to dental caries, 28.
- HURNI, F. H. See CORNER and HURNI, 483.
- HYDE, I. H. and W. SCALAPINO. The influence of music upon electrocardiograms and blood pressure, 35.
- Hyperglycemia, relation of adrenals to, 90.
- I**NNERVATION of stomach, 232.
- Intestinal loop fluid, closed, antigenic property of, 366.
- peristalsis, metabolic gradient of, 186.
- rhythmicity, influence of drugs on, 554.
- IVY, A. C. Contributions to the physiology of the stomach:
 XLVII. Gastric secretion and urine ammonia, 340.
 XLVIII. Studies in water drinking, 420.
- K**ENISTON, M. R. See HOWE and KENISTON, 28.
- KILBORN, L. G. See HARTMAN, KILBORN and FRASER, 168, 502, 521.
- KRETSCHMER, O. S. See GRUBER and KRETSCHMER, 222.
- L**AURENS, H. The effect of holding the breath and of rebreathing on the rise of CO₂ tension in the lungs, and the determination of the CO₂ tension of the "venous pulmonary air," 147.
- Liver, activation of muscle catalase by, 63.
- Lungs, carbon dioxide tension in, 147.
- M**CCLINTOCK, J. T. See DRAGSTEDT, DRAGSTEDT, McCLINTOCK and CHASE, 584.
- MCCOLLUM, E. V. and N. SIMMONDS. The nursing mother as a factor of safety in the nutrition of the young, 275.
- McINTOSH, W. A. Histological study of fat contained in the mucosa of the alimentary tract of moderately starved cats, 570.
- MARTIN, E. G. Muscular strength and muscular symmetry in human beings.
 I. In children, 67.
 — and W. H. RICH. The activities of decerebrate and decerebellate chicks, 396.
- Maternal nutrition and growth of offspring, 275.
- Metabolic gradient of intestinal peristalsis, 186.
- MILLS, C. A. Effects of external temperature, morphine, quinine and strychnine on thyroid activity, 329.
- MOORE, L. M. Experimental studies on the regulation of body temperature:
 I. Normal temperature variations and the temperature effects of operative procedures, 244.
 II. Relation of the corpus striatum to the regulation of body temperature, 253.

- Morphine, effect of, on thyroid activity, 329.
- Motor functions of cecum, 563.
- Muscle catalase, activation of, by liver, 63.
- , skeletal, effect of adrenalin on, 472.
- , tone, sympathetic regulation of, 478.
- Muscular strength and muscular symmetry in man, 67.
- Music, influence of, on cardio-vascular system, 35.
- NEILL, A. J. See BURGE and NEILL, 117.
- Nerve ganglia, vascular response of adrenalin on, 521.
- , stimulation, reflex afferent, response of vasomotor mechanism to, 222.
- Nervous regulation of respiration, 459.
- Nutrition, maternal, and growth of young, 275.
- OLMSTEAD, J. M. D. Experiments on the nature of the sense of smell in the common catfish, *Amiurus nebulosus* (Lesueur), 443.
- Ovulation cycle in rat, effect of corpus luteum on, 483.
- Oxidation in body, mechanism for control of, 117.
- PITUITRIN, adrenalin and, balance between regulation by, 129.
- , effect of, on kidney under strain, 84.
- , regulation of urea excretion by, 52.
- PRINCE, A. L. and L. J. HAHN. The effect on body temperature induced by thermal stimulation of the heat center in the brain of the cat, 412.
- , —, —. The effect on the volume of the hind limb induced by heating and cooling the corpus striatum of the rabbit, 416.
- QUININE, effect of, on thyroid activity, 329.
- REACTIONS of frogs to heat and cold, 493.
- Renal activity, regulation of, 1, 11, 22, 39, 52, 84, 129.
- Respiration, nervous regulation of, 459.
- Rhinophore in nudibranchs, sensory function of, 526.
- RICH, W. H. See MARTIN and RICH, 396.
- ROGOFF, J. M. See STEWART and ROGOFF, 90.
- SALIVA and dental caries, 28.
- SCALAPINO, W. See HYDE and SCALAPINO, 35.
- Secretion, stimulation of blood cell formation by, 209.
- Sensory function of rhinophore in nudibranchs, 526.
- SHEVKY, A. E. See ADDIS, BARNETT and SHEVKY, 1, 22, 39, 52.
- , See ADDIS, SHEVKY and BEVIER, 11, 129.
- Shock, acapnia and, 533.
- , and circulatory failure following trauma, 314.
- SIMMONDS, N. See MCCOLLUM and SIMMONDS, 275.
- Smell, sense of, in catfish, 443.
- SMITH, M. I. The action of the autonomic drugs on the surviving stomach. A study on the innervation of the stomach, 232.
- STARKWEATHER, E. See ALVAREZ and STARKWEATHER, 186, 563.
- STEWART, G. N. and J. M. ROGOFF. The relation of the adrenals to piqure hyperglycemia and to the glycogen content of the liver, 90.
- Stomach, innervation of, 232.
- , physiology of, 340, 420.
- , surviving, action of autonomic drugs on, 232.

Strychnine, effect of, on thyroid activity, 329.

Sympathetic regulation of muscle tone, 478.

TEMPERATURE, body, regulation of, in rabbit, 244, 253.

—, —, relation of corpus striatum to regulation of, 253.

— effects of operative procedures, 244.

—, external, effect of, on thyroid activity, 329.

Thromboplastic action of cephalin, 375.

Thyroid activity, factors influencing, 329.

Trauma, shock and circulatory failure following, 314.

UREA excretion, regulation of, by adrenalin, 39.

—, —, —, by anatomical factors, 11.

—, —, —, by concentration of urea in blood and in urine, 1.

Urea excretion, regulation of, by pituitrin, 52.

—, —, —, by unknown factors, 22.

Urine ammonia, gastric secretion and, 340.

VASCULAR response of adrenalin on nerve ganglia, 521.

— to heat center in rabbit, 416.

Vasodilator mechanisms, adrenalin, 502.

Vasomotor mechanism, response of, to reflex afferent nerve stimulation, 222.

Veno-pressor mechanism, 533, 591.

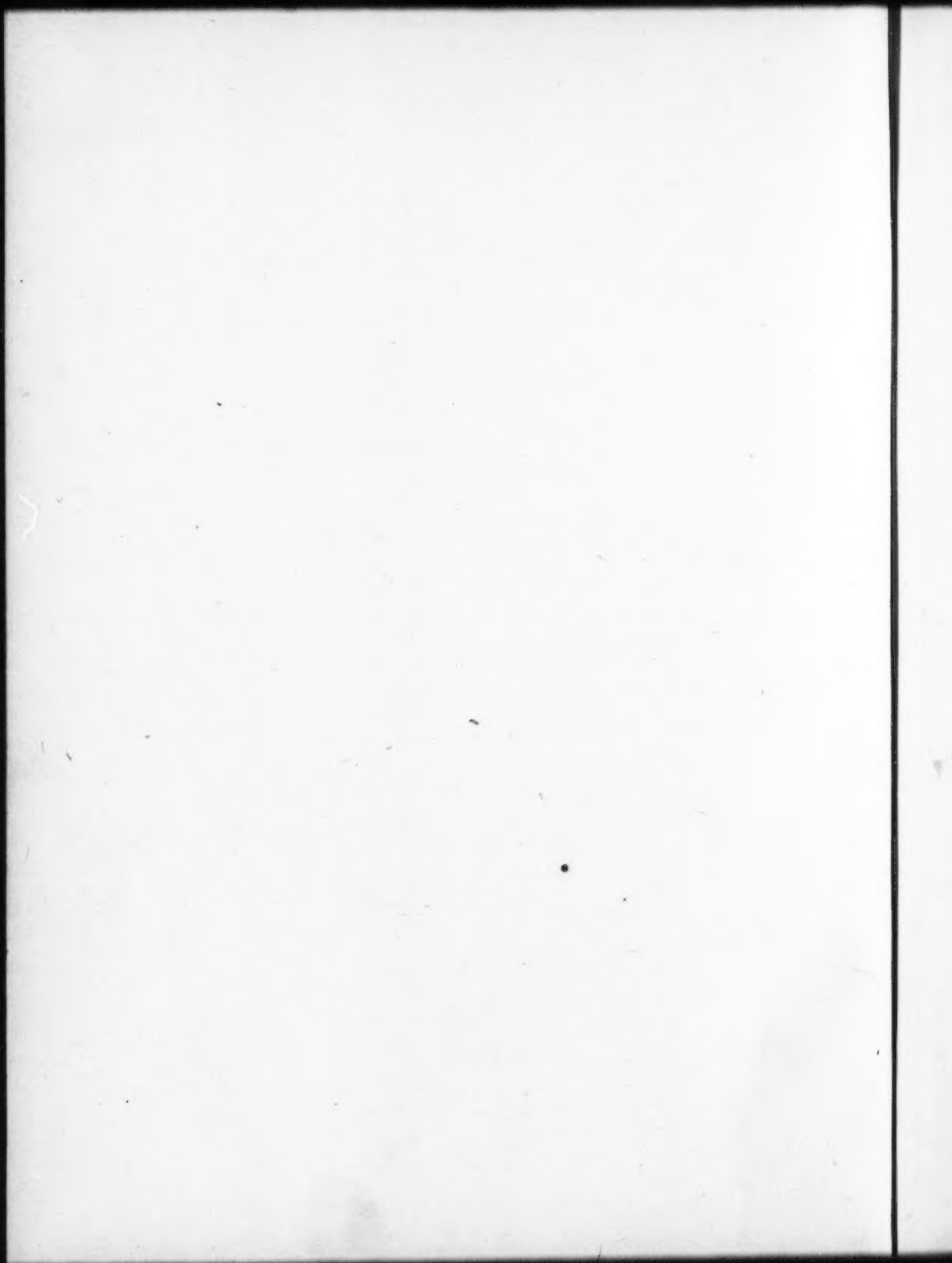
Venous discharge from adrenal glands, 362.

“— pulmonary air,” carbon dioxide tension of, 147.

WAKSMAN, S. A. Studies on the thromboplastic action of cephalin, 375.

Water drinking, studies in, 420.

WIGGERS, C. J. Shock and circulatory failure following trauma, 314.



THE
AMERICAN JOURNAL
OF
PHYSIOLOGY

VOLUME XLVI

BALTIMORE, MD.
1918

THE
AMERICAN JOURNAL
OF
PHYSIOLOGY

VOLUME XXV

PUBLISHED BY THE
AMERICAN PHYSIOLOGICAL SOCIETY

CONTENTS

No. 1. APRIL 1, 1918

THE REGULATION OF RENAL ACTIVITY. I. REGULATION OF UREA EXCRETION BY THE CONCENTRATION OF UREA IN THE BLOOD AND IN THE URINE. <i>T. Addis, G. D. Barnett and A. E. Shevsky</i>	1
THE REGULATION OF RENAL ACTIVITY. II. REGULATION OF UREA EXCRETION BY ANATOMICAL FACTORS. <i>T. Addis, A. E. Shevsky and G. Bevier</i> ...	11
THE REGULATION OF RENAL ACTIVITY. III. REGULATION OF UREA EXCRETION BY UNKNOWN FACTORS. <i>T. Addis, G. D. Barnett and A. E. Shevsky</i> ...	22
THE SALIVARY FACTOR IN RELATION TO DENTAL CARIES. <i>Percy R. Howe and Mildred R. Keniston</i>	28
THE INFLUENCE OF MUSIC UPON ELECTROCARDIOGRAMS AND BLOOD PRESSURE. <i>I. H. Hyde and W. Scalapino</i>	35

No. 2. MAY 1, 1918

THE REGULATION OF RENAL ACTIVITY. IV. REGULATION OF UREA EXCRETION BY ADRENALIN. <i>T. Addis, G. D. Barnett and A. E. Shevsky</i>	39
THE REGULATION OF RENAL ACTIVITY. V. REGULATION OF UREA EXCRETION BY PITUITRIN. <i>T. Addis, G. D. Barnett and A. E. Shevsky</i>	52
THE ACTIVATION OF MUSCLE CATALASE BY LIVER. <i>Theo. C. Burnett</i>	63
MUSCULAR STRENGTH AND MUSCULAR SYMMETRY IN HUMAN BEINGS. I. IN CHILDREN. <i>E. G. Martin</i>	67
THE REGULATION OF RENAL ACTIVITY. VI. THE EFFECT OF ADRENALIN AND PITUITRIN ON THE ACTION OF THE KIDNEY UNDER STRAIN. <i>T. Addis, M. G. Foster and G. D. Barnett</i>	84
THE RELATION OF THE ADRENALS TO PIQURE HYPERGLYCEMIA AND TO THE GLYCOGEN CONTENT OF THE LIVER. <i>G. N. Stewart and J. M. Rogoff</i> ..	90
NORMAL MECHANISM FOR THE CONTROL OF OXIDATION IN THE BODY. <i>W. E. Burge and A. J. Neill</i>	117

No. 3. JUNE 1, 1918

THE REGULATION OF RENAL ACTIVITY. VII. THE BALANCE BETWEEN THE REGULATION BY ADRENALIN AND BY PITUITRIN. <i>T. Addis, A. E. Shevsky and G. Bevier</i>	129
THE EFFECT OF HOLDING THE BREATH AND OF REBREATHING ON THE RISE OF CO ₂ TENSION IN THE LUNGS, AND THE DETERMINATION OF THE CO ₂ TENSION OF THE "VENOUS PULMONARY AIR." <i>Henry Laurens</i>	147
LOCATION OF THE ADRENALIN VASODILATOR MECHANISMS. <i>Frank A. Hartman, Leslie G. Kilborn and Lois Fraser</i>	168

XI. THE METABOLIC GRADIENT UNDERLYING INTESTINAL PERISTALSIS. <i>Walter C. Alvarez and Esther Starkweather</i>	186
SECRETIN. III. ITS MODE OF ACTION IN PRODUCING AN INCREASE IN THE NUMBER OF CORPUSCLES IN THE CIRCULATING BLOOD. <i>Ardrey W. Downs and Nathan B. Eddy</i>	209
II. FURTHER STUDIES ON THE RESPONSE OF THE VASOMOTOR MECHANISM TO REFLEX AFFERENT NERVE STIMULATION. <i>C.M. Gruber and O.S. Kretschmer</i>	222
THE ACTION OF THE AUTONOMIC DRUGS ON THE SURVIVING STOMACH. A STUDY ON THE INNERVATION OF THE STOMACH. <i>Maurice I. Smith</i>	232
EXPERIMENTAL STUDIES ON THE REGULATION OF BODY TEMPERATURE. I. NORMAL TEMPERATURE VARIATIONS AND THE TEMPERATURE EFFECTS OF OPERATIVE PROCEDURES. <i>Lillian M. Moore</i>	244
EXPERIMENTAL STUDIES ON THE REGULATION OF BODY TEMPERATURE. II. RELATION OF THE CORPUS STRIATUM TO THE REGULATION OF BODY TEMPERATURE. <i>Lillian M. Moore</i>	253
THE NURSING MOTHER AS A FACTOR OF SAFETY IN THE NUTRITION OF THE YOUNG. <i>E. V. McCollum and N. Simmonds</i>	275
SHOCK AND CIRCULATORY FAILURE FOLLOWING TRAUMA. <i>Carl J. Wiggers</i> ..	314

No. 4. JULY 1, 1918

EFFECTS OF EXTERNAL TEMPERATURE, MORPHINE, QUININE AND STRYCHNINE ON THYROID ACTIVITY. <i>C. A. Mills</i>	329
CONTRIBUTIONS TO THE PHYSIOLOGY OF THE STOMACH. XLVII. GASTRIC SECRETION AND URINE AMMONIA. <i>A. C. Ivy</i>	340
THE EFFECTS OF ADRENIN ON THE DISTRIBUTION OF THE BLOOD. VII. VENOUS DISCHARGE FROM THE ADRENAL GLANDS. <i>R. E. Lee Gunning</i>	362
THE ANTIGENIC PROPERTY OF CLOSED INTESTINAL LOOP FLUID. <i>Carl A. Dragstedt, Lester R. Dragstedt and C. S. Chase</i>	366
STUDIES ON THE THROMBOPLASTIC ACTION OF CEPHALIN. <i>Selman A. Waxman</i>	375
THE ACTIVITIES OF DECEREBRATE AND DECEREBELLATE CHICKS. <i>E. G. Martin and W. H. Rick</i>	396
THE EFFECT ON BODY TEMPERATURE INDUCED BY THERMAL STIMULATION OF THE HEAT CENTER IN THE BRAIN OF THE CAT. <i>Alexander L. Prince and Leo J. Hahn</i>	412
THE EFFECT ON THE VOLUME OF THE HIND LIMB INDUCED BY HEATING AND COOLING THE CORPUS STRIATUM OF THE RABBIT. <i>Alexander L. Prince and Leo J. Hahn</i>	416
CONTRIBUTIONS TO THE PHYSIOLOGY OF THE STOMACH. XLVIII. STUDIES IN WATER DRINKING. <i>A. C. Ivy</i>	420
EXPERIMENTS ON THE NATURE OF THE SENSE OF SMELL IN THE COMMON CATFISH, <i>AMIURUS NEBULOSUS</i> (LESUEUR). <i>J. M. D. Olmsted</i>	443
THE RELATION OF THE DORSAL ROOTS OF THE SPINAL NERVES AND THE MESENCEPHALON TO THE CONTROL OF THE RESPIRATORY MOVEMENTS. <i>Helen C. Coombs</i>	459
VII. THE EFFECT OF ADRENALIN ON THE IRRITABILITY AND CONTRACTILITY OF MAMMALIAN NERVE-MUSCLE PREPARATIONS AFTER DEATH. <i>C. M. Gruber and A. P. Fellows</i>	472

A NOTE ON THE SUPPOSED RELATION OF THE SYMPATHETIC NERVES TO DE-CEREBRATE RIGIDITY, MUSCLE TONE AND TENDON REFLEXES. <i>Stanley Cobb</i>	478
THE NON-EFFECT OF CORPUS LUTEUM PREPARATIONS ON THE OVULATION CYCLE OF THE RAT. <i>George W. Corner and Felix H. Hurni</i>	483

No. 5. AUGUST 1, 1918

ON THE SIGNIFICANCE OF THE REACTION TO SHADING IN CHITON. <i>W. J. Crozier and L. B. Arey</i>	487
REACTIONS OF FROGS TO HEAT AND COLD. <i>Eleanor Stabler Brooks</i>	493
ADRENALIN VASODILATOR MECHANISMS. <i>Frank A. Hartman, Leslie G. Kilborn and Lois Fraser</i>	502
CONSTRICION FROM ADRENALIN ACTING UPON SYMPATHETIC AND DORSAL ROOT GANGLIA. <i>Frank A. Hartman, Leslie G. Kilborn and Lois Fraser</i> ..	521
THE MULTIPLE SENSORY ACTIVITIES OF THE SO-CALLED RHINOPHORE OF NUDIBRANCHS. <i>Leslie E. Arey</i>	526
ACAPNIA AND SHOCK. VIII. THE VENO-PRESSOR MECHANISM. <i>Yandell Henderson and Samuel C. Harvey</i>	533
XII. THE INFLUENCE OF DRUGS ON INTESTINAL RHYTHMICITY. <i>Walter C. Alvarez</i>	554
XIII. THE MOTOR FUNCTIONS OF THE CECUM. <i>Walter C. Alvarez and Esther Starkweather</i>	563
HISTOLOGICAL STUDY OF FAT CONTAINED IN THE MUCOSA OF THE ALIMENTARY TRACT OF MODERATELY STARVED CATS. <i>William A. McIntosh</i>	570
EZTIRPATION OF THE DUODENUM. <i>Lester R. Dragstedt, Carl A. Dragstedt, J. T. McClintock and C. S. Chase</i>	584
THE VENO-PRESSOR MECHANISM. <i>D. R. Hooker</i>	591
INDEX.....	599

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY
530 CHICAGO
CHICAGO, ILL. 60637
U.S.A.
TEL. 312/937-1234
FAX 312/937-1234
E-MAIL: chem@uchicago.edu
WWW: www.uchicago.edu/chem
The Department of Chemistry at the University of Chicago is one of the leading centers for research in chemistry in the United States. It is a member of the Division of the Physical Sciences, which is one of the largest and most diverse divisions in the university. The department is headed by Professor Robert M. Waymouth, who is also the director of the Division of the Physical Sciences. The department has a long and distinguished history, and has produced many of the leading chemists in the world. It is currently one of the most active and productive departments in the United States, and is expected to continue to be so for many years to come. The department is currently seeking applications for positions at all levels, and is particularly interested in candidates with strong research backgrounds. For more information, please contact the Department of Chemistry at the University of Chicago.

WANTED

For position in pharmacological laboratory, woman or man not subject to draft, with a thorough training in pharmacology, laboratory physiology, zoölogy or general biology, who is capable of doing research work. In replying, kindly give details as to training, experience and initial salary expected. Unusual opportunity for person meeting these qualifications.

Address in care of

Williams & Wilkins Co.
BALTIMORE, MD.

IF you contemplate establishing a journal along technical, scientific or general lines, we believe you will find our organization worthy of special consideration. We undertake the development and manufacture of numerous journals.

We shall be glad to offer the services of our experts to formulate plans for establishing your journal successfully.

WILLIAMS & WILKINS COMPANY
2419-21 GREENMOUNT AVENUE
BALTIMORE, U. S. A.

ACQUAINTANCE

Has been made by a large number of discriminating physicians with the "**H. W. & D.**" products and almost without exception favorable comment follows this acquaintance.

The INTEREST of all physicians is sought upon the basis of therapeutic worth and proper ethical exploitation. The advertisement of our specialties in "The Journal," A. M. A., certifies that they conform to the rules of "The Council" for admission into New and Nonofficial Remedies.

New diagnostic agents and appliances. Catalogue upon request.

INDICATIONS

Disturbed intestinal conditions

of putrefactive or fermentative origin in adults and children.

**BULGARA
TABLETS**
(*Bacilli Bulgarici*)

Abnormal ovarian functionation

due to natural or surgical menopause or tardy development.

**LUTEIN
TABLETS**
(*Corpus Luteum*)

Insufficient biliary secretion

especially when there is a thickening of the bile with simulation of gall stone symptoms

**GLYCOTAURO
TABLETS**
(*Standardised Bile*)

**THE HYNSON, WESTCOTT & DUNNING
PHARMACEUTICAL LABORATORY**

BALTIMORE

MARYLAND

AMERICAN JOURNAL OF PHYSIOLOGY

VOL. XLVI

JUNE 1, 1918

NO. 3

CONTENTS

	PAGE
THE REGULATION OF RENAL ACTIVITY. VII. THE BALANCE BETWEEN THE REGULATION BY ADRENALIN AND BY PITUITRIN. <i>T. Addis, A. E. Shevky and G. Bevier</i>	129
THE EFFECT OF HOLDING THE BREATH AND OF REBREATHING ON THE RISE OF CO ₂ TENSION IN THE LUNGS, AND THE DETERMINATION OF THE CO ₂ TENSION OF THE "VENOUS PULMONARY AIR." <i>Henry Laurens</i>	147
LOCATION OF THE ADRENALIN VASODILATOR MECHANISMS. <i>Frank A. Hartman, Leslie G. Kilborn and Lois Fraser</i>	168
XI. THE METABOLIC GRADIENT UNDERLYING INTESTINAL PERISTALSIS. <i>Walter C. Alvarez and Esther Starkweather</i>	186
SECRETIN. III. ITS MODE OF ACTION IN PRODUCING AN INCREASE IN THE NUMBER OF CORPUSCLES IN THE CIRCULATING BLOOD. <i>Ardrey W. Downs and Nathan B. Eddy</i> ...	209
II. FURTHER STUDIES ON THE RESPONSE OF THE VASOMOTOR MECHANISM TO REFLEX AFFERENT NERVE STIMULATION. <i>C. M. Gruber and O. S. Kretschmer</i>	222
THE ACTION OF THE AUTONOMIC DRUGS ON THE SURVIVING STOMACH. A STUDY ON THE INNERVATION OF THE STOMACH. <i>Maurice I. Smith</i>	232
EXPERIMENTAL STUDIES ON THE REGULATION OF BODY TEMPERATURE. I. NORMAL TEMPERATURE VARIATIONS AND THE TEMPERATURE EFFECTS OF OPERATIVE PROCEDURES. <i>Lillian M. Moore</i>	244
EXPERIMENTAL STUDIES ON THE REGULATION OF BODY TEMPERATURE. II. RELATION OF THE CORPUS STRIATUM TO THE REGULATION OF BODY TEMPERATURE. <i>Lillian M. Moore</i>	253
THE NURSING MOTHER AS A FACTOR OF SAFETY IN THE NUTRITION OF THE YOUNG. <i>E. V. McCollum and N. Simmonds</i>	275
SHOCK AND CIRCULATORY FAILURE FOLLOWING TRAUMA. <i>Carl J. Wiggers</i>	314

VOL. XLVI

JULY 1, 1918

NO. 4

EFFECTS OF EXTERNAL TEMPERATURE, MORPHINE, QUININE AND STRYCHNINE ON THYROID ACTIVITY. <i>C. A. Mills</i>	329
CONTRIBUTIONS TO THE PHYSIOLOGY OF THE STOMACH. XLVII. GASTRIC SECRETION AND URINE AMMONIA. <i>A. C. Ivy</i>	340
THE EFFECTS OF ADRENIN ON THE DISTRIBUTION OF THE BLOOD. VII. VENOUS DISCHARGE FROM THE ADRENAL GLANDS. <i>R. E. Lee Gunning</i>	362
THE ANTIGENIC PROPERTY OF CLOSED INTESTINAL LOOP FLUID. <i>Carl A. Dragstedt, Lester R. Dragstedt and C. S. Chase</i>	366
STUDIES ON THE THROMBOPLASTIC ACTION OF CEPHALIN. <i>Selman A. Waksman</i>	375
THE ACTIVITIES OF DECEREBRATE AND DECEREBELLATE CHICKS. <i>E. G. Martin and W. H. Rich</i>	393
THE EFFECT ON BODY TEMPERATURE INDUCED BY THERMAL STIMULATION OF THE HEAT CENTER IN THE BRAIN OF THE CAT. <i>Alexander L. Prince and Leo J. Hahn</i>	412
THE EFFECT ON THE VOLUME OF THE HIND LIMB INDUCED BY HEATING AND COOLING THE CORPUS STRIATUM OF THE RABBIT. <i>Alexander L. Prince and Leo J. Hahn</i>	416
CONTRIBUTIONS TO THE PHYSIOLOGY OF THE STOMACH. XLVIII. STUDIES IN WATER DRINKING. <i>A. C. Ivy</i>	420
EXPERIMENTS ON THE NATURE OF THE SENSE OF SMELL IN THE COMMON CATFISH, AMIURUS NEBULOSUS (LESUEUR). <i>J. M. D. Olmsted</i>	443
THE RELATION OF THE DORSAL ROOTS OF THE SPINAL NERVES AND THE MESENCEPHALON TO THE CONTROL OF THE RESPIRATORY MOVEMENTS. <i>Helen C. Coombs</i>	459
VII. THE EFFECT OF ADRENALIN ON THE IRRITABILITY AND CONTRACTILITY OF MAMMALIAN NERVE-MUSCLE PREPARATIONS AFTER DEATH. <i>C. M. Gruber and A. P. Fellows</i>	472
A NOTE ON THE SUPPOSED RELATION OF THE SYMPATHETIC NERVES TO DECEREBRATE RIGIDITY, MUSCLE TONE AND TENDON REFLEXES. <i>Stanley Cobb</i>	478
THE NON-EFFECT OF CORPUS LUTEUM PREPARATIONS ON THE OVULATION CYCLE OF THE RAT. <i>George W. Corner and Felix H. Hurni</i>	483

